

## REMARKS

Claims 8 and 13 which were indicated to contain allowable subject matter have been rewritten in independent form.

The objections to the drawings and specification have been addressed in the amendments and substitute drawings presented herewith. New Figure 7 has been added to illustrate the embodiments recited in claims 7 and 8. Additionally, amendments have been made to the specification to refer to the new drawing. It is respectfully submitted that the new drawing and the accompanying text do not introduce any new matter to the application.

Claim 1 has been amended to better articulate the features of the invention that are believed to distinguish the art of record. Specifically, claim 1 has been amended to make it clear that the only lateral movement of the capillary during positioning is towards the second contact and that the lateral movement of the capillary is never reversed. In contrast both the admitted prior art and the Kinnaird reference contemplate reversing the direction of the lateral movement of the capillary at some point. For example, in the method described in the background section of the application, the capillary is moved laterally away from the second contact in motion segment A (as shown in Fig. 1 of the present application and as described in the paragraph beginning at page 1, line 27 of the present application).


Kinnaird contemplates reversing the lateral movement of the capillary at the end of the movement. Specifically, the capillary 301 follows the path 303 as can be seen in Fig. 3 of the Kinnaird reference. The path 303 meets the pad 204 at a location that is further from the ball bond 302 than the desired destination 305. Therefore, Kinnaird appears to contemplate a movement pattern wherein after the capillary is brought to a location over the pad 204, its lateral direction is reversed. In view of the foregoing, it is respectfully submitted that claim 1 as presently presented is patentable over the art of record.

Claim 12 was rejected under 35 USC 112, 2<sup>nd</sup> paragraph. This rejection is respectfully traversed. It is respectfully submitted that the claim internally defines the heat affected zone as a region that extends approximately 3-4 mils above the semiconductor die and that this definition is definite and fully complies with the requirements of 35 USC 112, 2<sup>nd</sup> paragraph.

Claims 3-7, 9-12, 14 and 16-19 all depend directly or indirectly from either allowable claim 13 or claim 1, which has been discussed above. Accordingly, it is respectfully submitted that all pending claims are patentable over the art of record and that this case is now in condition

for allowance. Should the Examiner have any remaining concerns regarding the present application, he is encouraged to contact the undersigned at the telephone number set out below.

Respectfully submitted,  
BEYER WEAVER & THOMAS, LLP



Steve D Beyer  
Reg. No. 31,234

P.O. Box 70250  
Oakland, CA 94612-0250  
(650) 961-8300

**Amendments to the Drawings:**

The attached sheets of drawings includes a replacement Fig. 2 which has been labeled as prior art as requested by the Examiner. Additionally, a new drawing sheet introducing Figure 7 has been provided.

Attachment: 1 Replacement Sheet and 1 New Sheet of Drawings